

PATENT ABSTRACTS OF JAPAN

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(54) SLOWLY SOLUBLE COATING MATERIAL

(57)Abstract:

PURPOSE: To obtain the title coating material useful as, e.g., a paint for ship bottom and can give a film which is resistant to a temperature change and is tough, by transesterifying a copolymer of

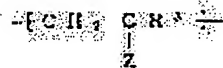
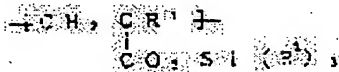
triorganosilyl (meth)acrylate with a (meth)acrylic or vinyl compound with a specified silane compound.

CONSTITUTION: 10W90mol% monomer (A) for forming triorganosilyl (meth) acrylate units of formula I (wherein R1 is H or CH3, and R2 is a monovalent hydrocarbon group free of any aliphatic unsaturated bond, and at least one of the R2 groups is 4 C or

higher) is copolymerized with 10W90mol% monomer (B) for forming a (meth)acrylic or vinyl unit of formula II (wherein R3 is R1, and Z is an Si-containing monovalent polar group or phenyl) [e.g., methyl (meth) acrylate] to obtain a copolymer of

an average degree of polymerization of 0W100. A copolymer (condensed crosslinked product) obtained by transesterifying this with a silane compound (C) for forming a silicon-functional silyl acrylate unit of formula III (wherein R7 is R1, R8 is a monovalent hydrocarbon group, X is OH or a hydrolyzable group, and a is 0W2) is mixed with an organic solvent, a pigment, a suspending agent, etc.

Chemical structures I, II, and III are shown as follows:



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